

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE		PAGE 1 OF 1 PAGES		
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 05/20/99		4. REQUISITION/PURCHASE REQ. NO. W38XGR-9050-8417		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE COE		7. ADMINISTERED BY (If other than Item 6)		CODE	
Department of the Army Memphis District Corps of Engineers 167 N Main St, Rm B202 Memphis, TN 38103-1894 Estella Blackman (901)544-3615				(✓)		9A. AMENDMENT OF SOLICITATION NO. DACW66-99-B-0005	
				✗		9B. DATED (SEE ITEM 11) 04/08/99	
						10A. MODIFICATION OF CONTRACTS/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				CODE		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
✗	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)
Solicitation is amended to provide prospective bidders a copy of the corrected specifications. Bid opening date of 10 June 1999 at 2:30 P.M. remains the same.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
<div style="border-top: 1px solid black; text-align: center;">(Signature of person authorized to sign)</div>		<div style="border-top: 1px solid black; text-align: center;">BY (Signature of Contracting Officer)</div>	

INSTRUCTIONS

Instructions for items other than those that are self-explanatory, are as follows:

- (a) Item 1 (Contract ID Code). Insert the contract type identification code that appears in the title block of the contract being modified.
- (b) Item 3 (Effective date).
- (1) For a solicitation amendment, change order, or administrative change, the effective date shall be the issue date of the amendment, change order, or administrative change.
 - (2) For a supplemental agreement, the effective date shall be the date agreed to by the contracting parties.
 - (3) For a modification issued as an initial or confirming notice of termination for the convenience of the Government, the effective date and the modification number of the confirming notice shall be the same as the effective date and modification number of the initial notice.
 - (4) For a modification converting a termination for default to a termination for the convenience of the Government, the effective date shall be the same as the effective date of the termination for default.
 - (5) For a modification confirming the contracting officer's determination of the amount due in settlement of a contract termination, the effective date shall be the same as the effective date of the initial decision.
- (c) Item 6 (Issued By). Insert the name and address of the issuing office. If applicable, insert the appropriate issuing office code in the code block.
- (d) Item 8 (Name and Address of Contractor). For modifications to a contract or order, enter the contractor's name, address, and code as shown in the original contract or order, unless changed by this or a previous modification.
- (e) Items 9, (Amendment of Solicitation No.-Dated), and 10, (Modification of Contract/Order No.-Dated). Check the appropriate box and in the corresponding blanks insert the number and date of the original solicitation, contract, or order.
- (f) Item 12 (Accounting and Appropriation Data). When appropriate, indicate the impact of the modification on each affected accounting classification by inserting one of the following entries:
- (1) Accounting classification
Net increase \$.....
 - (2) Accounting classification
Net decrease \$.....
- NOTE: If there are changes to multiple accounting classifications that cannot be placed in block 12, insert an asterisk and the words "See continuation sheet".
- (g) Item 13. Check the appropriate box to indicate the type of modification. Insert in the corresponding blank the authority under which the modification is issued. Check whether or not contractor must sign this document. (See FAR 43.103.)
- (h) Item 14 (Description of Amendment/Modification).
- (1) Organize amendments or modifications under the appropriate Uniform Contract Format (UCF) section headings from the applicable solicitation or contract. The UCF table of contents, however, shall not be set forth in this document.
 - (2) Indicate the impact of the modification on the overall total contract price by inserting one of the following entries:
 - (i) Total contract price increased by \$.....
 - (ii) Total contract price decreased by \$.....
 - (iii) Total contract price unchanged.
 - (3) State reason for modification.
 - (4) When removing, reinstating, or adding funds, identify the contract items and accounting classifications.
 - (5) When the SF 30 is used to reflect a determination by the contracting officer of the amount due in settlement of a contract terminated for the convenience of the Government, the entry in Item 14 of the modification may be limited to -
 - (i) A reference to the letter determination; and
 - (ii) A statement of the net amount determined to be due in settlement of the contract.
 - (6) Include subject matter or short title of solicitation/contract where feasible.
- (i) Item 16B. The contracting officer's signature is not required on solicitation amendments. The contracting officer's signature is normally affixed last on supplemental agreements.

Invitation No. DACW66-99-B-0005

BIDDING SCHEDULE

HIRE OF ONE TENDER, FULLY OPERATED

ITEM :		ESTIMATED :		UNIT :	
ESTIMATED					
NO :	DESCRIPTION :	QUANTITY :	UNIT :	PRICE :	AMOUNT
1 :	Operating Time :	2500 :	HRS :	\$:	\$:
:	:	:	:	:	:
:	:	:	:	:	:
:	:	:	:	:	:
:	:	:	:	:	:
:	:	:	:	:	:
:	:	:	:	:	:

The Government reserves the right to extend the estimated operating time specified in the Schedule, by 10 calendar days. The Contractor shall be notified in writing of any such extension on or before completion of 90 percent of estimated operating time.

Award will be made to the bidder whose bid complied with the essential requirements of the specifications and whose bid will result in obtaining the towboat at the least cost to the Government.

NOTE: ALL TOTAL CALCULATIONS OF THE UNIT PRICES SHOWN WILL BE SUBJECT TO VERIFICATION BY THE GOVERNMENT. IN CASE OF VARIATION BETWEEN THE UNIT PRICE AND THE TOTAL ESTIMATED AMOUNT, THE UNIT PRICE WILL BE CONSIDERED TO BE THE BID.

IF A BID OR MODIFICATION TO A BID BASED ON UNIT PRICES IS SUBMITTED AND PROVIDES FOR A LUMP SUM ADJUSTMENT TO THE TOTAL ESTIMATED COST, THE APPLICATION OF THE LUMP SUM ADJUSTMENT TO EACH UNIT PRICE, INCLUDING LUMP SUM UNITS, IN THE BID SCHEDULE MUST BE STATED. IF IT IS NOT STATED, THE BIDDER AGREES THAT THE LUMP SUM ADJUSTMENT SHALL BE APPLIED ON A PRO-RATA BASIS TO EVERY UNIT PRICE IN THE BID SCHEDULE.

DATA SHEET FOR TENDER

SCHEDULE A

THE FOLLOWING INFORMATION MUST BE FURNISHED BY THE BIDDER

*Name or number of the boat: _____
(LIST ONE BOAT ONLY PER DATA SHEET)

Hull:

*Material of Construction _____ *Length, Feet _____
*Molded Beam, Feet _____ Depth, Feet _____ *Draft, Feet _____
When Built _____ Last Docked _____

Propelling Engines:

Make _____ *Continuous H.P. _____ Each
Model _____ Age _____ R.P.M. _____
Serial Nos. (PORT) _____ (STBD) _____

Fuel:

Type _____ Consumption 24-hr Period _____ Gals.
Total Storage Capacity of tanks _____ Gals.

Reduction Gear:

Make _____ Model _____ Age _____ Ratio _____

Radio:

Make _____ Model _____
List Channel Frequencies _____

Radar:

Make _____ Model _____

Electric Generator:

Volts _____ Phase _____ Cycles _____ (AC) (DC)

Owner of boat: _____

Boat may be inspected at: _____

Person to be contacted concerning this bid: _____

Name _____
Street _____
City _____
Telephone No. __ () _____

NOTE: The data identified by an asterisk on this Data Sheet will be used to determine if the specifications are met.

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C-1. Object of these Specifications. The object of these specifications is to secure for the Government, by hire, one tender with operating personnel. The tender will be used on the Mississippi River from Ste. Genevieve, Missouri (Upper Mississippi River Mile 123), to the Head of Passes (Lower Mississippi River Mile 0); the Ohio River from Cairo, Illinois (Ohio River Mile 981), to Ohio River Mile 920; the Tennessee River from Paducah, Kentucky (Tennessee River Mile 0), to above Kentucky Dam (Tennessee River Mile 25); the Cumberland River from Mile 0 to Mile 8; the Old River, the Atchafalaya and the Red Rivers (Louisiana), for general towing and tender service in connection with construction and maintenance of channel improvement works. The tender will probably work with the revetment field unit engaged in bank grading operations. The Government reserves the right to use the tender with any of the field units engaged in the revetment operation or for towing barges loaded with gravel, concrete mat, or any other material related to revetment operations. The tender will be used to transport personnel, plant and materials.

C-2. Delivery and Release. (a) Delivery of the tender shall be made afloat at Ensley Engineer, McKellar Lake, Tennessee (Mile 725.6 AHP) or at a location specified by the Contracting Officer's Representative. The Contractor will be notified seven calendar days before the date tender is to be delivered. It is expected, but not guaranteed, that delivery of the tender will be required about 6 July 1999. A final inspection will be made after delivery of the tender and the Contractor notified of acceptance or rejection. A pre-work conference will be held after final acceptance. The tender shall be ready for operation when delivered.

(b) Upon termination or completion of the contract, the tender will be released to the Contractor at the work site on which it was last used.

C-3. Contract Period. It is estimated but not guaranteed that the tender will be used 14 weeks. At the option of the Government, the operating time of the tender may be extended up to 35 percent of the time stated in the Bidding Schedule. The operating worksheet for the tender will be Sunday through Saturday. It is expected that the tender furnished will be used 24 hours per day, 7 days per week.

C-4. Payment. Payment will be made monthly for amounts due the Contractor, less cash discount, if any, calculated on the basis
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of the total number of hours due in accordance with the provisions of paragraph C-5, at the applicable hourly rate stipulated in the Bidding Schedule. Payment estimates will be prepared by the Contracting Officer's Representative at the site of work, and

payment will be made as soon as practicable after estimates have been received by the Disbursing Officer. No payment will be made for time lost because of breakdowns or for other causes due to the fault or negligence of the Contractor or his employees.

C-5. Determination of Time for Payment.

(a) Operating Time. The Contractor will be paid for each hour the tender is operated at the unit price as set forth in the Bidding Schedule for "Operating Time", except as provided for in paragraph C-5(c) and C-11(a). The time for which payment will be made for each shift's operation will be the number of elapsed hours from the time the tender is placed in operation at the beginning of the shift until the time the tender is released at the end of the shift, computed to the nearest one-fourth hour, less designated non-work periods, time lost because of breakdowns and for other causes due to the fault or negligence of the Contractor or his employees. Time for payment will begin after final inspection and acceptance as required in C-2 above, and will end at the time the tender is finally released to the Contractor.

(b) Minimum Quantity. The Government shall order a minimum quantity of 1125 hours of service as designated in the schedule unless the contract is terminated due to deficiencies in the Contractor's plant or for other causes due to the fault or negligence of the Contractor. The minimum quantity will include operating time and lost time, as a result of breakdowns or other causes due to the fault or negligence of the Contractor or his employees. The Contractor will be paid for each hour of guaranteed time, except for lost time, as specified in paragraph C-5, at the unit price bid for operating time as set forth in the Bidding Schedule.

(c) Lost Time. Lost time will be considered as the time when any of the required equipment on the tender is inoperative. During such time, when due to job requirements the tender is allowed to work with one engine inoperative, the unit price may be reduced to seventy percent (70%) of the contract amount. Time lost for minor repairs and/or adjustments to the tender which, in the opinion of the Contracting Officer's representative, does not interfere with or result in loss of operating time, will not be charged as lost time to the Contractor. The Contractor will not be paid for hours of lost time except in the instances as stated above.

C-6. Suspension of Work. In the event it becomes necessary to
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suspend channel improvement work because of high river stages, mechanical breakdown of Government equipment and/or for other unforeseen causes, the Government reserves the right to suspend use of the tender. The Contractor will be notified as soon as practicable prior to suspension of work. The Contractor will also be notified prior to resumption of work and in ample time to make preparations to resume normal operations.

C-7. Performance of Plant. The acceptance of the tender and the award of a contract will not relieve the Contractor from responsibility for the satisfactory performance of the tender accepted. If at any time during the contract period it is adjudged by the Contracting Officer or his representative that the tender is not capable of doing satisfactory work under normal conditions, the Contractor's right to proceed may be terminated.

C-8. Control and Responsibility. The tender shall be under the control of the Contracting Officer, of his duly authorized representative, with regard to location and hours of work. However, the rental is to be considered as a time charter, as distinguished from a demise or bare boat charter, and the operation of the tender shall at all times be under the direction of the Contractor or his employee or employees.

C-9. Supervision. No instructions of the Contracting Officer's Representative or lack thereof will at any time relieve the Contractor from the responsibility of complying fully with all requirements of the contract. The Contracting Officer's Representative is not authorized to waive or alter in any respect any of the terms or requirements of the contract, nor to make additional requirements.

C-10. Security Responsibility. It will be the responsibility of the tender crew to provide security (serve as watchmen) for all Government plant to which it has been assigned during the off-duty period for Government employees or when the plant is being towed by the tender. The security duties will consist of preventing and reporting fires, accidents, sinking, thefts, and pillaging of Government plant, material or property, and to keep unauthorized persons off Government plant and report any unusual happening to the Government representative in charge.

C-11. Operating Personnel. The Contractor shall furnish and pay all necessary crew required for the satisfactory and efficient operation of the tender including not less than one operator and two deckhands per shift. A minimum of 4 deckhands shall be maintained in the crew. The Contractor shall furnish the Contracting Officer's Representative a weekly listing of all personnel on board and their duties. The Contractor shall be responsible for compliance with all marine laws pertaining to labor on the tender.

(a) The Contractor shall furnish and pay a sufficient number of tender operators and deckhands to operate the tender the required number of hours. The tender operators furnished shall be competent and satisfactory to the Contracting Officer and shall possess a current license issued by the U.S. Coast Guard. Said license shall cover the type, size and horsepower of the boat operated. A full boat operator's license shall be the minimum requirement for boat operator's. The Contracting Officer's Representative shall be informed of any crew change prior to making said change. All operators when initially reporting for duty shall report to the Contracting Officer's Representative with a current license as mentioned above for the Contracting Officer's Representative's inspection. Failure to do this may be grounds for placing the tender in a non-pay status. Deckhands shall be not less than 18 years of age. Operators shall be alert at all times and responsive to the instructions of the Contracting Officer or his authorized representative. Under the provisions of the Contract Clause entitled "Objectionable Employees", Section H, operators and deckhands furnished by the Contractor who, in the opinion of the Contracting Officer or his authorized representative, are adjudged incompetent or otherwise objectionable, shall be promptly replaced by the Contractor. Failure to provide competent and capable operators and deckhands at all times will be considered a failure to provide proper performance of the plant as provided in paragraph C-7 above and may be considered grounds for termination of the contract and for the Government to hire another boat with which to continue the work. Should this occur and the cost of the replacement boat so hired exceeds the cost of the boat covered by this contract, the excess cost will be assessed to the Contractor. Also, during such time, when due to job requirements the tender is allowed to work with less than the required crew as specified in SC-11, the unit price may be reduced to seventy percent (70%) of the contract price.

(b) Each tender will have a certified tanker man on board at all times, any crew member who holds a current U.S. Coast Guard tanker man certificate may serve as tanker man.

C-12. Operation and Repair.

(a) Except as hereinafter provided, the Contractor shall furnish at his expense operators, deckhands, labor, lubricants, motor oil, appliances, appurtenances, equipment materials, and bear all expenses incidental to the efficient operation of the tender in connection with work under the contract. The Contractor shall also bear all direct overhead and collateral expenses incidental to the operation, upkeep and repair to the tender. He shall maintain it in a good state of repair and shall arrange for a supply of renewal parts to be on hand when needed for the tender. All fuel for the operation of the tender will be furnished by the Government. The tender shall report for duty with full fuel tanks, to the extent feasible, and these tanks will be filled from Government sources

during the rental period and upon release from duty.

(b) When the Government is furnishing transportation to any employees working at the same location that the tender is being used and transportation facilities available permit, the same transportation facilities may be made available for use by the contractor or his employees without cost to the Contractor. For and in consideration of this privilege, the Contractor releases and agrees to indemnify and save harmless the United States from any and all claims, damages, loss, death, injury or property damages sustained by the Contractor or his employees, agents, representatives, heirs or assigns as a result of the use of such transportation.

(c) Prior to tying up to Government floating plant, the Contractor or his employees will obtain permission from the Officer in Charge of such plant. It will be the Contractor's or his employees' sole responsibility to see that the tender is separated from Government floating plant and moved a safe distance prior to any movement of the Government plant, except when the tender is taking Government plant in tow or is being towed. During the movement of equipment from job site to job site, the Contractor's tender may be taken in tow by Government-owned or rented towboats.

C-13. Subsistence and Quarters. The Contractor shall furnish all subsistence and quarters for his personnel, to include the procurement of supplies and subsistence and delivery of same.

C-14. Safety Requirements. The Contractor shall comply with the requirements of EM 385-1-1, Safety and Health Requirements dated 3 September 1996, which are a part of these specifications. No separate payment shall be made for compliance with these requirements.

C-15. Accident Prevention Program. Within 15 days after receipt of Notice of Award of the contract, and at least seven days prior to the pre-work conference, four copies of the Accident Prevention Program shall be submitted to the Contracting Officer for review and approval. The program shall be prepared in the following format:

(a) An executed LMV Form 358-R, Administrative Plan.

(b) An executed LMV Form 359-R, Job Hazard Analysis.

(c) A copy of company policy statement of accident prevention and any other guidance statements normally provided new employees. The Contractor shall not commence physical work at the site until the program has been approved by the Contracting Officer, or his authorized representative. (Refer to Section 1 of EM 385-1-1).

C-16. Daily Inspection. The Contractor shall institute a daily inspection program to assure all safety requirements are being fulfilled. Reports of daily inspections shall be maintained at the job site. The reports shall be records of the daily inspections and resulting actions. Each report will include, as a minimum, the following:

(a) Phases(s) of construction underway during inspection.

(b) Locations or areas inspections were made.

(c) Results of inspection, including nature of deficiencies.

C-17. Emergency Alarms and Signals.

(a) Alarms. Emergency alarms shall be installed and maintained on all floating plant requiring a crew where it is possible for either a passenger or crewman to be out of sight or hearing from any other person. The alarm system shall be operated from the primary electrical system with standby batteries on trickle charge that will automatically furnish the required energy during an electrical system failure. A sufficient number of signaling devices shall be placed on deck so that the sound can be heard distinctly at any point above the usual background noise. All signaling devices shall be so interconnected that actuation can occur from at least one strategic point on each deck.

(b) Signals.

(1) Fire Alarm Signals. The general fire alarm signal shall be in accordance with paragraph 97.13-5b of the Coast Guard Rules and Regulations for Cargo and Miscellaneous Vessels, Sub-chapter I, 1 Sep 77 (CG 257).

(2) Abandon Ship Signals. The signal for abandon ship shall be in accordance with paragraph 97.13-15c of reference cited in (1) above.

(3) Man-overboard Signal. Hail and pass the word to the bridge. All personnel and vessels capable of rendering assistance shall respond.

C-18. Means of Escape for Personnel Quartered or Working on Floating Plant. Two means of escape shall be provided for assembly areas, sleeping, and messing areas on floating plant. For areas involving ten or more persons both means of escape shall be through standard size doors, opening to different exit routes. Where nine or fewer persons are involved, one of the means of escape may be a

window which leads to a different exit route (Refer to Section 19 of EM 385-1-1).

C-19. Hurricane Plan. A detailed plan for protection and evacuation of personnel and plant, in the event of an impending hurricane or storm, is required as an enclosure to the Contractor's Accident Prevention Program. This plan shall be submitted to the Contracting Officer, or his authorized representative, for review prior to the pre-work conference. The plan shall include at least the following:

(a) The time each phase of the plan will be put in effect. The time shall be the number of hours remaining for the storm to reach the work site if it continued at the predicted speed and direction.

(b) The safe harbor for personnel and plant specifically identified.

(c) The estimated time necessary to move the plant to the safe harbor after movement is started.

C-20. When marine plant and equipment are in use under a contract, the method of fuel oil transfer shall be included on LMV Form 414-R, "Fuel Oil Transfer - Floating Plant". (Refer to 33 CFR 156)

C-21. Payment. No separate payment will be made for compliance with the safety requirements and all costs thereof shall be considered incidental to the various bid items of the contract.

C-22. Pollution Control.

(a) Contamination of Water. The Contractor shall not pollute lakes, ditches, rivers, and reservoirs with fuels, oils, bitumen, calcium chloride, insecticides, herbicides or other materials harmful to fish, shellfish and wildlife or material which may be detrimental to outdoor recreation. It is the responsibility of the Contractor to investigate and comply with all applicable Federal, State, County, and Municipal laws concerning pollution of rivers and streams, and protection of health, shellfish and domestic animals.

(b) Disposal of Materials. All waste, trash, garbage, empty containers, etc., shall be placed in plastic bags or other suitable containers approved by the Contracting Officer's Representative. The Contractor's personnel will place the packaged waste on designated barges for final disposal by the Government. No waste matter of any kind will be thrown overboard.

C-23. Contractor will be responsible for submitting vessel Amendment 0002

operation reports to the Waterborne Commerce Statistics Office as required when towing Government Materials.

TECHNICAL PROVISIONS

1. Diesel Tender. Each tender to be furnished under this contract shall meet the following requirements:

1.1 Each tender shall at all times comply with the current rules and regulations of the U.S. Coast Guard and shall be currently certified for operation in the water specified.

1.2 The hull of the tender shall be of steel construction, with conventional shallow draft river work boat design. Tugs will not be considered.

1.3 The dimensions of the hull shall be not less than 75 feet in length measured from end to end; not less than 24 feet molded beam; the draft shall not exceed 8 feet when fully loaded with fuel (under working conditions); and the freeboard shall be not less than 16 inches when fully loaded with fuel.

1.4 Each tender shall be equipped with a pilothouse of sufficient size so as to provide adequate space for the operator and auxiliary equipment necessary for safe operation of the tender. The pilothouse shall be equipped with adequate windows to allow the operator good visibility in all directions and the floor of the pilothouse shall be at least 13 feet above the water surface to provide good visibility when engaged in towing operations. The tender shall have two means of escape provided for assembly areas, sleeping and messing areas. One of the means of escape may be a window (minimum dimension 24 inches by 36 inches) which leads to a different exit route.

1.5 Each tender shall have two rubber towing knees extending

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from approximately the water line to about 7'6" above the water line. One towing knee shall be equipped with steps and pipe hand railing.

1.6 Each tender shall be equipped with ample deck fittings and two electric powered winches. The winches shall be located forward of the pilothouse and have a minimum capacity of 10,000 pounds single line pull and have not less than 75 feet of steel cable of adequate size for securing tows. The winches shall be capable of being operated from the deck and the pilothouse.

1.7 Each tender shall be propelled by a minimum of two diesel marine engines with a manufacturer's rating of not less than a total of 1850 continuous brake horsepower, at the manufacturer's recommended operating RPM. The tender shall be equipped with a reversible type marine gearbox so as not to lose power when switching from forward to reverse power. The engine exhaust system will contain a muffler to reduce the noise level.

1.8 Each tender shall have power-actuated steering and flanking rudders capable of independent operation and shall be seaworthy and in good mechanical condition. Power source for operation of the steering mechanism shall be independent of the propelling engines. The tender shall be equipped with two electric generators, one for standby.

1.9 Fuel Tanks. Each tender shall have a fuel capacity sufficient to allow 120 hours operation without refueling.

1.10 Electrical. each tender shall have a 230 volt, 30 amp, receptacle accessible to plug in extension cord for operation of 5 HP, single phase, 60 Hz motor on Government fuel barge.

1.11 Radar. Each tender shall be equipped with radar facilities in good operating condition.

1.12 Radio. Each tender shall be equipped with radio facilities in good operating condition for ship to ship communications and in addition sufficient electrical capacity for operation of Government-owned FM, Single Side Bands, and CB communication radios. Said radios, which may be installed by the Government during the period that the tender is in use under this contract will operate on 110-volt AC current and will draw approximately 750 watts.